Abstract

A synergistic herbicidal mixture comprising

A) at least one 3-heterocyclyl-substituted benzoyl derivative of the formula I

$$\mathbb{R}^6$$
 \mathbb{N}
 \mathbb{N}

in which the variables have the following meanings:

- R¹, R³ are halogen, alkyl, haloalkyl, alkoxy, haloalkoxy, alkylthio, alkylsulfinyl or alkylsulfonyl;
- R² is a optionally substituted heterocyclic radical selected from the group: isoxazol-3-yl, isoxazol-4-yl, isoxazol-5-yl, 4,5-dihydroisoxazol-3-yl, 4,5-dihydroisoxazol-5-yl;
- R⁴ is hydrogen, halogen or alkyl;
- R⁵ is alkyl;
- R⁶ is hydrogen or alkyl;

or one of its environmentally compatible salts;

and

B) the compound of formula II

or one of its environmentally compatible salts;

and

 at least one further herbicidal compound from the group of the acetolactate synthase inhibitors (ALS), lipid biosynthesis inhibitors and photosynthesis inhibitors;

in a synergistically effective amount.

Compositions comprising these mixtures, processes for the preparation of these compositions, and their use for controlling undesired plants.